



Human health in a changing climate: A Canadian assessment of vulnerabilities and adaptive capacity - Chapter 8 - Vulnerabilities, adaptation and adaptive capacity in Canada

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Book:	Human Health in A Changing Climate: A Canadian Assessment of Vulnerabilities and Adaptive Capacity
Year:	2008
Publisher:	Health Canada (Ottawa, Canada)

Abstract:

This chapter examines the capacity of governments and communities to respond to climate change through an assessment of measures and systems that are in place to manage current climate-related health risks. It reviews results from new research, findings from other chapters of this Assessment and literature to draw conclusions about the sensitivity and exposure of Canadians to climate-related risks, and ultimately to provide insights about vulnerability. To support future adaptation efforts, it identifies current roles and responsibilities for managing climate-related health risks and provides an adaptation framework that offers guidance for developing needed measures to protect Canadians. It concludes by suggesting areas where adaptation efforts should focus and potential options for consideration by public health and emergency management officials.

Source:

<http://www.climateneeds.umd.edu/reports/Health%20Canada-Human%20Health%20in%20a%20Changing%20Climate.p>

Resource Description

Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience:

audience to whom the resource is directed

Health Professional, Public

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Ecosystem Changes, Extreme Weather Event, Food/Water Quality, Food/Water Quality, Food/Water Security, Food/Water Security, Glacier/Snow Melt, Human Conflict/Displacement, Precipitation, Sea Level Rise, Solar Radiation, Temperature

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Air Pollution: Allergens, Dust, Interaction with Temperature, Ozone, Particulate Matter

Extreme Weather Event: Drought, Flooding, Hurricanes/Cyclones, Landslides, Wildfires

Food/Water Quality: Biotoxin/Algal Bloom, Biotoxin/Algal Bloom, Pathogen, Other Water Quality Issue

Water Quality (other): Water temperature; Salinity; pH; Dissolved oxygen

Food/Water Security: Agricultural Productivity, Fisheries, Food Access/Distribution, Livestock Productivity, Nutritional Quality

Temperature: Extreme Cold, Extreme Heat, Fluctuations

Geographic Feature: ☐

resource focuses on specific type of geography

Arctic, Ocean/Coastal, Rural, Urban, Other Geographical Feature

Other Geographical Feature : Forests

Geographic Location: ☐

resource focuses on specific location

Non-United States

Non-United States: Non-U.S. North America

Health Impact: ☐

specification of health effect or disease related to climate change exposure

Cancer, Cardiovascular Effect, Dermatological Effect, Infectious Disease, Injury, Mental Health/Stress, Morbidity/Mortality, Respiratory Effect

Cardiovascular Effect: Heart Attack

Infectious Disease: Foodborne/Waterborne Disease, Vectorborne Disease, Zoonotic Disease

Foodborne/Waterborne Disease: Campylobacteriosis, Cryptosporidiosis, E. coli, Giardiasis, Rotavirus, Salmonellosis, Shigellosis, Other Diarrheal Disease

Foodborne/Waterborne Disease (other): Typhoid; Streptococcus

Vectorborne Disease: Flea-borne Disease, Mosquito-borne Disease, Tick-borne Disease

Flea-borne Disease: Plague

Mosquito-borne Disease: Dengue, Malaria, Viral Encephalitis, Viral Encephalitis, Viral Encephalitis, West Nile Virus

Tick-borne Disease: Babesiosis, Lyme Disease, Rocky Mountain Spotted Fever, Tick-borne Encephalitis, Other Tick-borne Disease

Tick-borne Disease (other): Tularaemia; Human granulocytic anaplasmosis; Q fever

Zoonotic Disease: Hantavirus Pulmonary Syndrome

Mental Health Effect/Stress: Mood Disorder, Stress Disorder

Respiratory Effect: Asthma, Chronic Obstructive Pulmonary Disease, Upper Respiratory Allergy

Medical Community Engagement: ☐

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

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Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology:

type of model used or methodology development is a focus of resource

Exposure Change Prediction

Population of Concern: A focus of content

Population of Concern:

populations at particular risk or vulnerability to climate change impacts

Children, Elderly, Low Socioeconomic Status, Pregnant Women, Racial/Ethnic Subgroup

Other Racial/Ethnic Subgroup: Aboriginal populations

Other Vulnerable Population: Women; Socially isolated; Pre-existing medical conditions

Resource Type:

format or standard characteristic of resource

Review

Timescale:

time period studied

Long-Term (>50 years)

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content